

KOSS 09/646672 Page 1

=> FILE REG

FILE 'REGISTRY' ENTERED AT 14:59:34 ON 29 MAR 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 27 MAR 2002 HIGHEST RN 403476-73-3  
DICTIONARY FILE UPDATES: 27 MAR 2002 HIGHEST RN 403476-73-3

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAplus files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further assistance or to  
receive a credit for any duplicate searches.

=> FILE HCPLUS

FILE 'HCPLUS' ENTERED AT 14:59:40 ON 29 MAR 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is  
held by the publishers listed in the PUBLISHER (PB) field (available  
for records published or updated in Chemical Abstracts after December  
26, 1996), unless otherwise indicated in the original publications.  
The CA Lexicon is the copyrighted intellectual property of the  
the American Chemical Society and is provided to assist you in searching  
databases on STN. Any dissemination, distribution, copying, or storing  
of this information, without the prior written consent of CAS, is  
strictly prohibited.

FILE COVERS 1907 - 29 Mar 2002 VOL 136 ISS 13  
FILE LAST UPDATED: 26 Mar 2002 (20020326/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

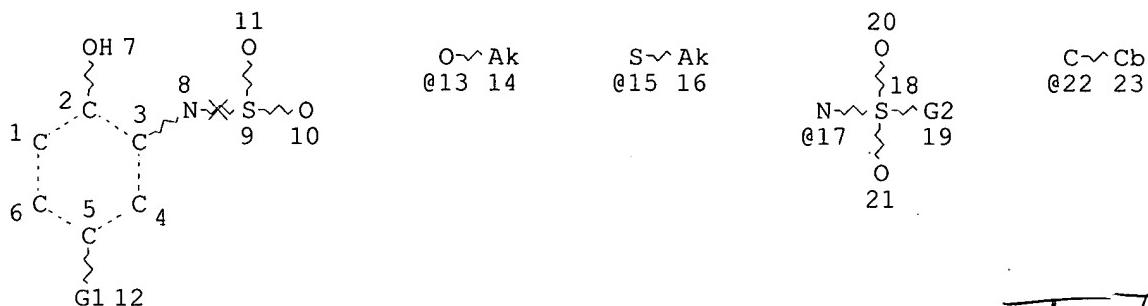
CAS roles have been modified effective December 16, 2001. Please

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

=> D QUE  
L5 STR



VAR G1=H/X/13/15/17/22

VAR G2=AK/CY

NODE ATTRIBUTES:

NSPEC IS RC AT 8

NSPEC IS RC AT 9

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L7 1383 SEA FILE=REGISTRY SSS FUL L5

L8 702 SEA FILE=HCAPLUS ABB=ON L7

L9 2 SEA FILE=HCAPLUS ABB=ON L8 AND (HAIR OR KERATIN?) *F*

=> D L9 1-2 ALL HITSTR

L9 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:513457 HCAPLUS

DN 133:124926

TI Novel cationic 2-sulfonylaminophenols, their use as couplers for oxidation dyeing

IN Vidal, Laurent; Saunier, Jean-Baptise *X*

PA L'oreal, Fr.

SO PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DT Patent

LA French

IC ICM A61K

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 28

*1383 structures from this query*

*2 ref's with*

*applicant*

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000042971	A2	20000727	WO 2000-FR142	20000121
	WO 2000042971	A3	20000928		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2788770	A1	20000728	FR 1999-640	19990121
	FR 2788770	B1	20010216		
	AU 2000030585	A1	20000807	AU 2000-30585	20000121
	EP 1066264	A2	20010110	EP 2000-900643	20000121
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	FR 1999-640	A	19990121		
	WO 2000-FR142	W	20000121		
OS	MARPAT 133:124926				
AB	The invention concerns novel cationic 2-sulfonylaminophenols (Markush structure given), their use as coupler for oxidn. dyeing of keratin fibers and in particular human keratin fibers such as hair, dyeing compns. contg. them combined with at least an oxidn. base, and oxidn. dyeing methods using them. A soln. of 2 g 2-chloro-N-(3-hydroxy-4-methanesulfonylamino-phenyl)-acetamide (prepn. given) and N-methylimidazole 0.6 mL in 40 mL dioxane was refluxed for 8 h, the ppt. was then sepd., washed, and dried to obtain 3-[ (3-hydroxy-4-methanesulfonylamino-phenylcarbamoyl)-methyl]-1-methyl-3H-imidazol-1-ium (I), yield = 77%. A hair dye prepn. contained I 1.087, paraphenylenediamine 0.324, excipients and water q.s. 100 g. At the time of use equal amts. of the prepn are mixed with a 20 vol. hydrogen peroxide and applied on a 90% white hair for 30 min., the hair was then rinsed, washed with shampoo, rinsed and dried to obtain a gray-brown color.				
ST	sulfonylaminophenol prepn coupler oxidn hair dye				
IT	Bromates				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(alkali metal salts; novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)				
IT	Hair preparations				
	(dyes, oxidative; novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)				
IT	Coupling agents				
	Oxidizing agents				
	(novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)				
IT	Enzymes, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)				
IT	Salts, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(of peroxy acids; novel cationic 2-sulfonylaminophenols, their use as				

couplers for oxidn. dyeing)

IT 95-55-6D, derivs. 106-50-3D, 1,4-Benzenediamine, derivs., biological studies 108-45-2D, 1,3-Benzenediamine, derivs., biological studies 123-30-8D, derivs. 124-43-6 591-27-5D, derivs. 7722-84-1, Hydrogen peroxide, biological studies 39792-19-3 **285993-00-2**  
285993-01-3 285993-02-4 285993-03-5  
285993-04-6 285993-05-7 285993-06-8  
285993-07-9 285993-08-0 285993-09-1  
285993-10-4 285993-11-5 285993-12-6  
285993-13-7 285993-14-8 285993-15-9  
285993-16-0 285993-17-1 285993-18-2 **28599**  
3-19-3 285993-20-6 285993-21-7  
285993-22-8 285993-23-9 285993-24-0  
285993-25-1 285993-26-2 285993-27-3  
285993-28-4 285993-29-5 285993-30-8 285993-31-9  
285993-32-0 285993-33-1 285993-34-2 285993-35-3  
285993-36-4 285993-37-5 285993-38-6 285993-39-7 **285993-40-0**  
**285993-41-1** 285993-42-2 285993-43-3 285993-44-4  
285993-45-5 285993-46-6 **285993-47-7** **285993-48-8**  
285993-49-9 285993-50-2 285993-51-3 285993-52-4 285993-53-5  
285993-54-6 285993-55-7 285993-56-8 285993-57-9 **285993-58-0**  
285993-59-1 285993-60-4 285993-61-5  
285993-62-6 285993-63-7 285993-64-8  
285993-65-9 285993-66-0 285993-67-1  
285993-68-2 285993-69-3 285993-70-6  
285993-71-7 285993-72-8 285993-73-9  
285993-74-0 285993-75-1 285993-76-2  
285993-77-3 285993-78-4 285993-79-5  
285993-80-8 285993-81-9 285993-82-0  
285993-83-1 285993-84-2 285993-85-3  
285993-86-4 285993-87-5  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)

IT **285992-98-5P**  
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)

IT 79-04-9, Chloroacetyl chloride 616-47-7, n Methylimidazole  
**38880-53-4**  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)

IT **57005-06-8P 285992-99-6P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(novel cationic 2-sulfonylaminophenols, their use as couplers for oxidn. dyeing)

IT 285993-00-2 285993-01-3 285993-02-4  
285993-03-5 285993-04-6 285993-05-7  
285993-06-8 285993-07-9 285993-08-0  
285993-09-1 285993-10-4 285993-11-5  
285993-12-6 285993-13-7 285993-14-8  
285993-15-9 285993-16-0 285993-17-1  
285993-18-2 285993-19-3 285993-20-6  
285993-21-7 285993-22-8 285993-23-9  
285993-24-0 285993-25-1 285993-26-2  
285993-27-3 285993-28-4 285993-33-1

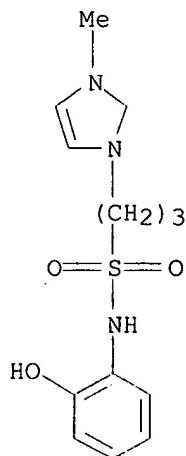
285993-34-2 285993-40-0 285993-41-1  
 285993-47-7 285993-48-8 285993-58-0  
 285993-59-1 285993-60-4 285993-61-5  
 285993-62-6 285993-63-7 285993-64-8  
 285993-65-9 285993-66-0 285993-67-1  
 285993-68-2 285993-69-3 285993-70-6  
 285993-71-7 285993-72-8 285993-73-9  
 285993-74-0 285993-75-1 285993-76-2  
 285993-77-3 285993-78-4 285993-79-5  
 285993-80-8 285993-81-9 285993-82-0  
 285993-83-1 285993-84-2 285993-85-3  
 285993-86-4 285993-87-5

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(novel cationic 2-sulfonylaminophenols, their use as couplers for  
 oxidn. dyeing)

RN 285993-00-2 HCPLUS

CN 1H-Imidazolium, 1-[3-[(2-hydroxyphenyl)amino]sulfonyl]propyl]-3-methyl-,  
 chloride (9CI) (CA INDEX NAME)

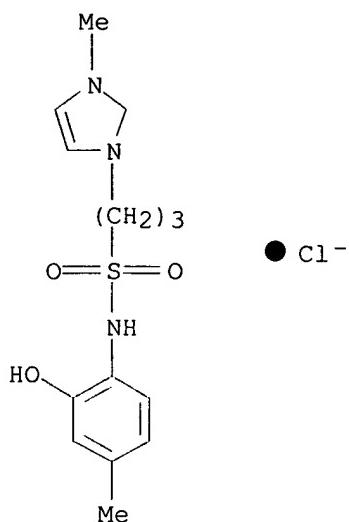


● Cl<sup>-</sup>

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-01-3 HCPLUS

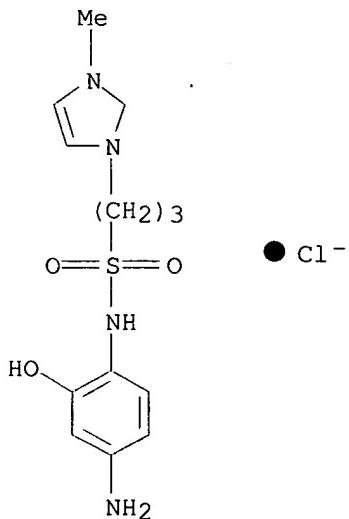
CN 1H-Imidazolium, 1-[3-[(2-hydroxy-4-methylphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-02-4 HCPLUS

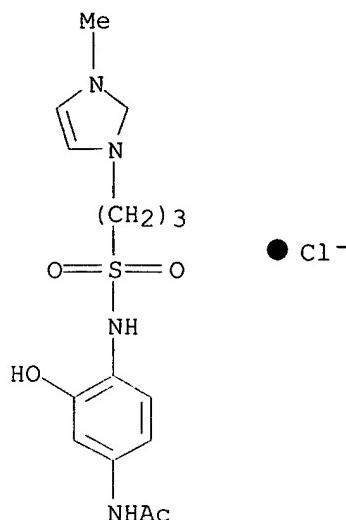
CN 1H-Imidazolium, 1-[3-[(4-amino-2-hydroxyphenyl)amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-03-5 HCPLUS

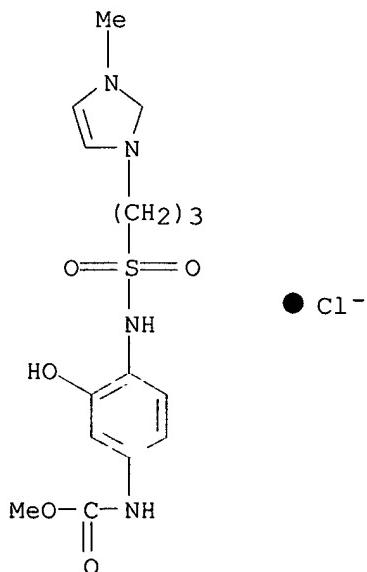
CN 1H-Imidazolium, 1-[3-[[[4-(acetylamino)-2-hydroxyphenyl]amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-04-6 HCPLUS

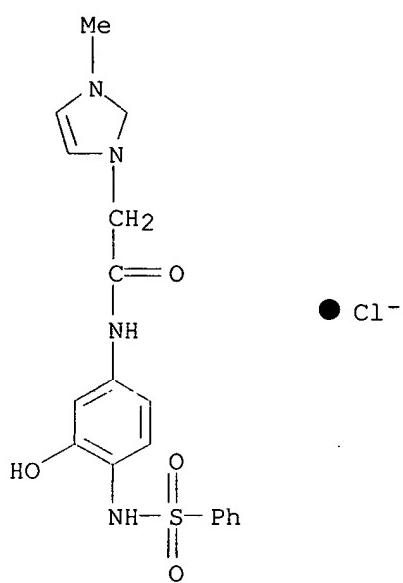
CN 1H-Imidazolium, 1-[3-[[2-hydroxy-4-[(methoxycarbonyl)amino]phenyl]amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-05-7 HCPLUS

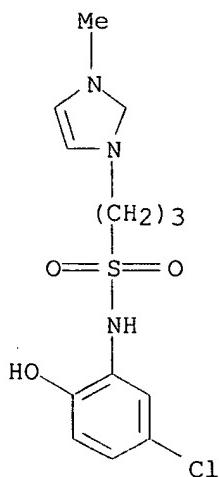
CN 1H-Imidazolium, 1-[2-[[3-hydroxy-4-[(phenylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-06-8 HCPLUS

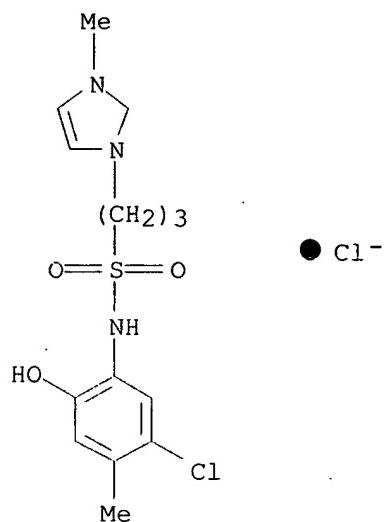
CN 1H-Imidazolium, 1-[3-[(5-chloro-2-hydroxyphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-07-9 HCPLUS

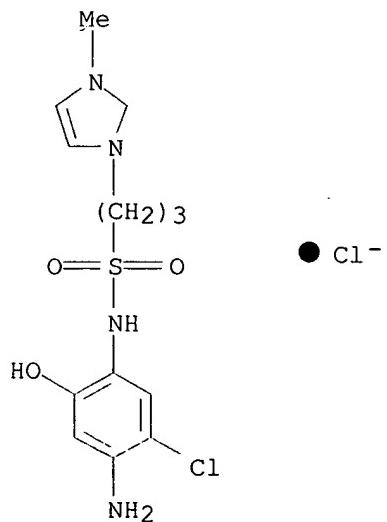
CN 1H-Imidazolium, 1-[3-[(5-chloro-2-hydroxy-4-methylphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-08-0 HCAPLUS

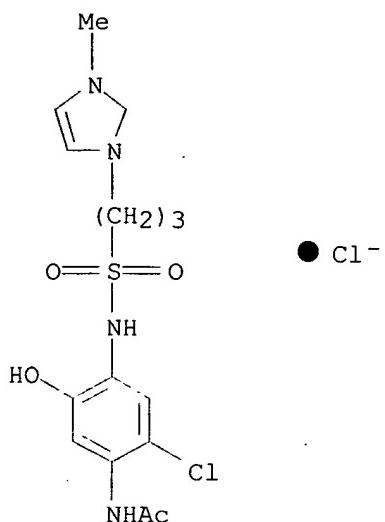
CN 1H-Imidazolium, 1-[3-[(4-amino-5-chloro-2-hydroxyphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-09-1 HCAPLUS

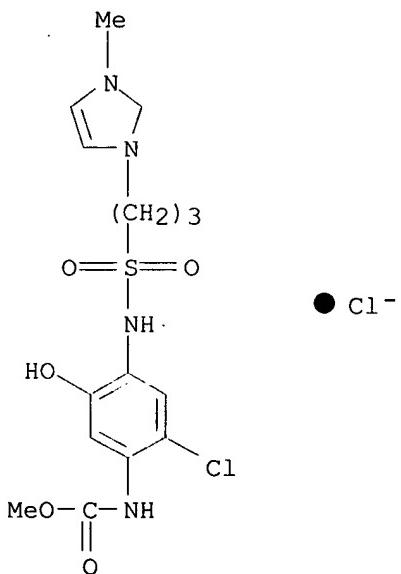
CN 1H-Imidazolium, 1-[3-[(4-(acetylamino)-5-chloro-2-hydroxyphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-10-4 HCAPLUS

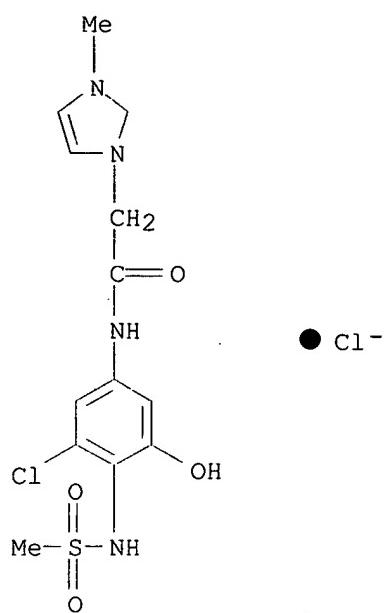
CN 1H-Imidazolium, 1-[3-[[5-chloro-2-hydroxy-4-[(methoxycarbonyl)amino]phenyl]amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-11-5 HCAPLUS

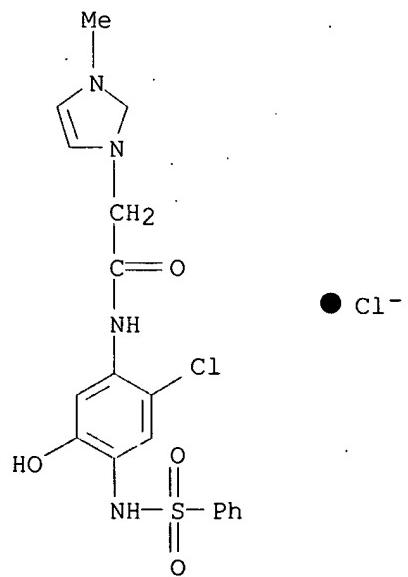
CN 1H-Imidazolium, 1-[2-[[3-chloro-5-hydroxy-4-[(methylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-12-6 HCAPLUS

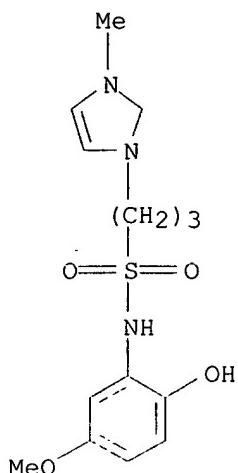
CN 1H-Imidazolium, 1-[2-[(2-chloro-5-hydroxy-4-[(phenylsulfonyl)amino]phenyl)amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-13-7 HCAPLUS

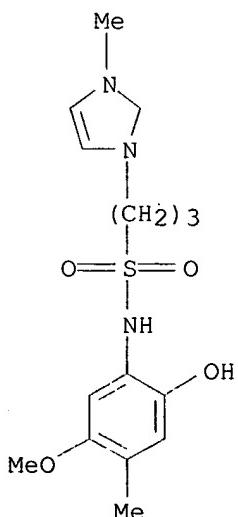
CN 1H-Imidazolium, 1-[3-[(2-hydroxy-5-methoxyphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-14-8 HCPLUS

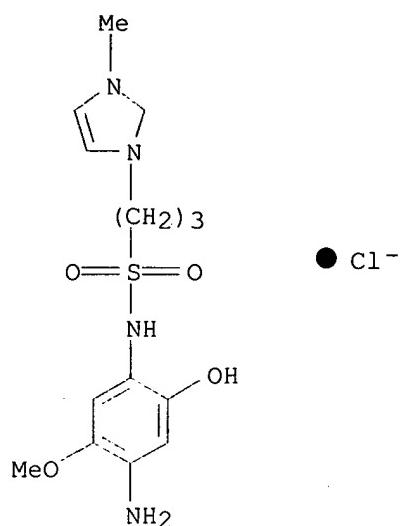
CN 1H-Imidazolium, 1-[3-[(2-hydroxy-5-methoxy-4-methylphenyl)amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-15-9 HCPLUS

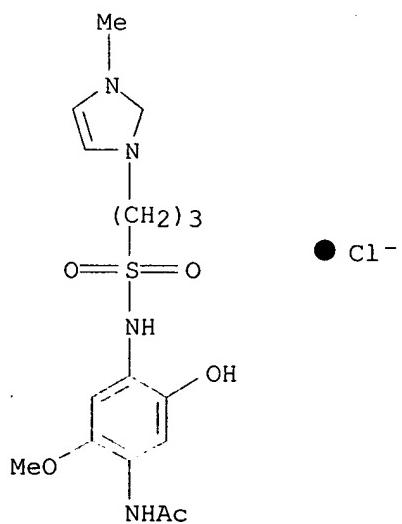
CN 1H-Imidazolium, 1-[3-[(4-amino-2-hydroxy-5-methoxyphenyl)amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-16-0 HCPLUS

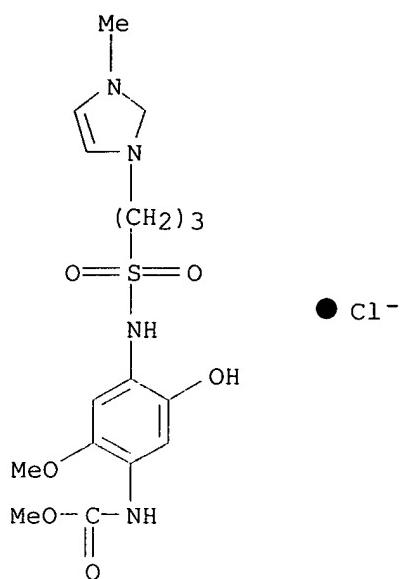
CN 1H-Imidazolium, 1-[3-[[[4-(acetylamino)-2-hydroxy-5-methoxyphenyl]amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-17-1 HCPLUS

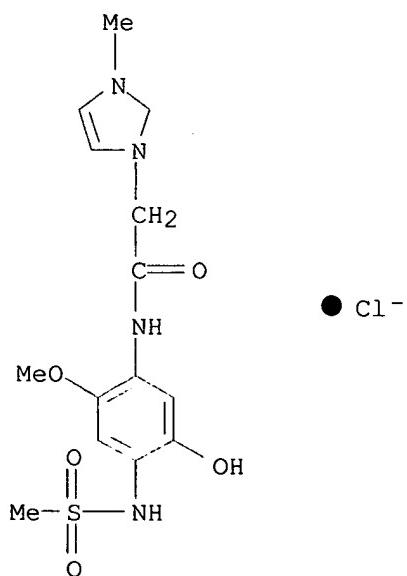
CN 1H-Imidazolium, 1-[3-[[[2-hydroxy-5-methoxy-4-(methoxycarbonyl)amino]phenyl]amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-18-2 HCAPLUS

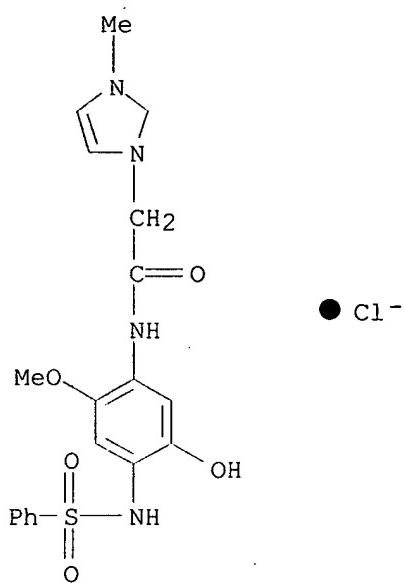
CN 1H-Imidazolium, 1-[2-[[5-hydroxy-2-methoxy-4-[(methylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-19-3 HCAPLUS

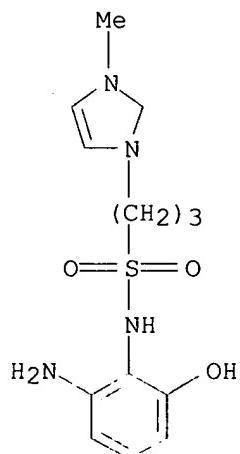
CN 1H-Imidazolium, 1-[2-[[5-hydroxy-2-methoxy-4-[(phenylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-20-6 HCAPLUS

CN 1H-Imidazolium, 1-[3-[(2-amino-6-hydroxyphenyl)amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)

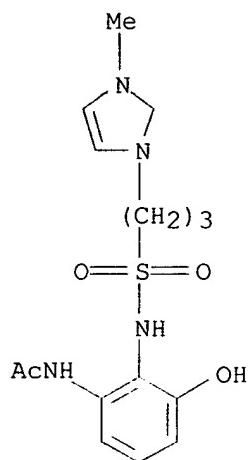


● Cl<sup>-</sup>

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-21-7 HCAPLUS

CN 1H-Imidazolium, 1-[3-[(2-(acetylamino)-6-hydroxyphenyl)amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)

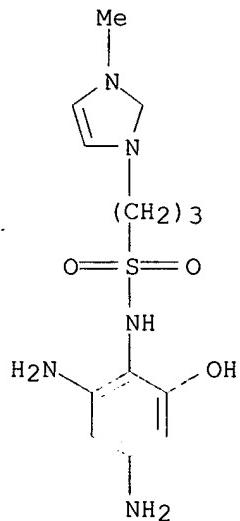


● Cl<sup>-</sup>

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-22-8 HCPLUS

CN 1H-Imidazolium, 1-[3-[(2,4-diamino-6-hydroxyphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

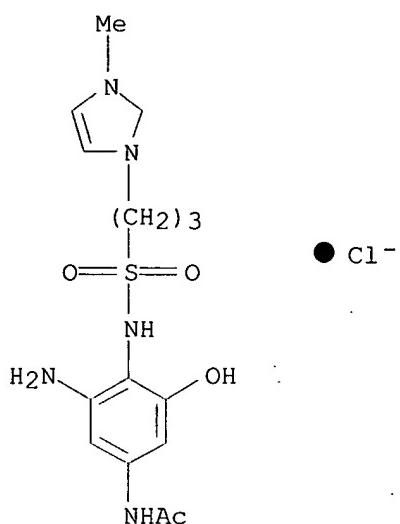


● Cl<sup>-</sup>

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-23-9 HCPLUS

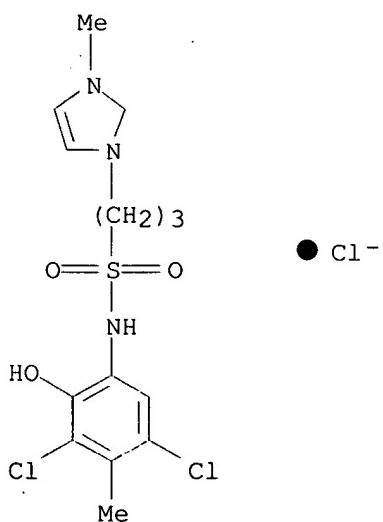
CN 1H-Imidazolium, 1-[3-[[[4-(acetylamino)-2-amino-6-hydroxyphenyl]amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-24-0 HCPLUS

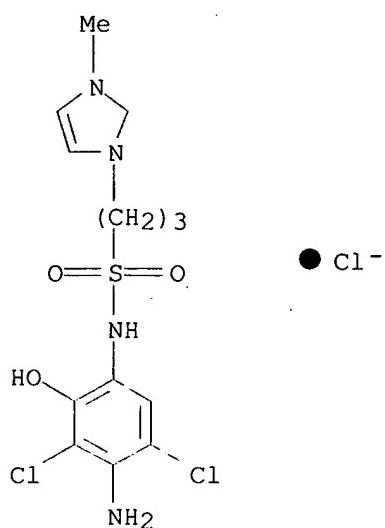
CN 1H-Imidazolium, 1-[3-[(3,5-dichloro-2-hydroxy-4-methylphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-25-1 HCPLUS

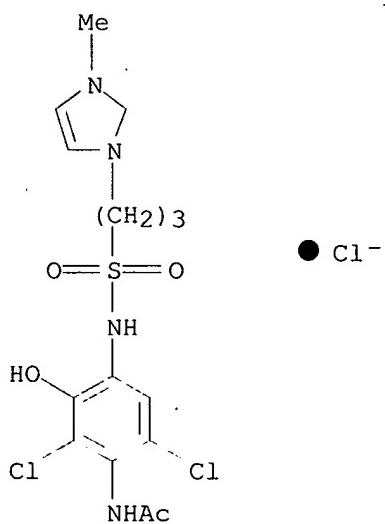
CN 1H-Imidazolium, 1-[3-[(4-amino-3,5-dichloro-2-hydroxyphenyl)amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-26-2 HCPLUS

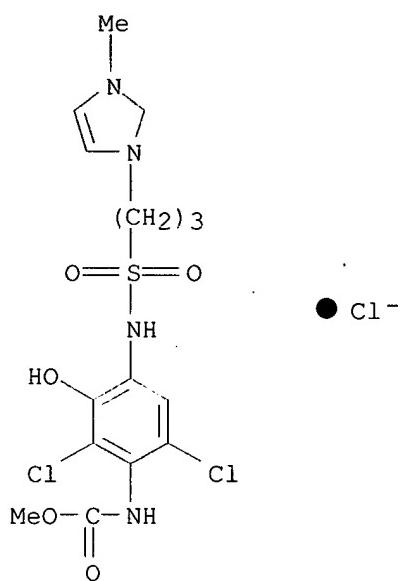
CN 1H-Imidazolium, 1-[3-[[4-(acetylamino)-3,5-dichloro-2-hydroxyphenyl]amino]sulfonyl]propyl-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-27-3 HCPLUS

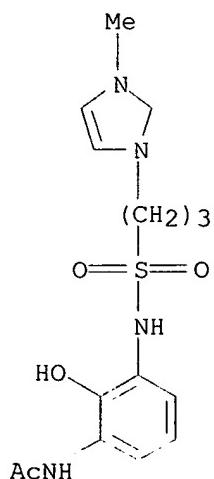
CN 1H-Imidazolium, 1-[3-[[3,5-dichloro-2-hydroxy-4-(methoxycarbonyl)amino]phenyl]amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

RN 285993-28-4 HCPLUS

CN 1H-Imidazolium, 1-[3-[[[3-(acetylamino)-2-hydroxyphenyl]amino]sulfonyl]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

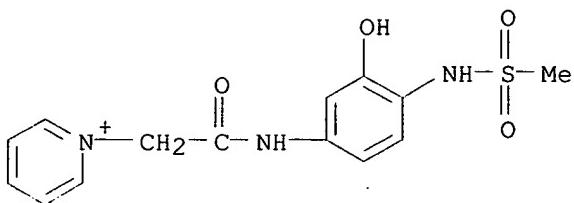


● Cl<sup>-</sup>

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

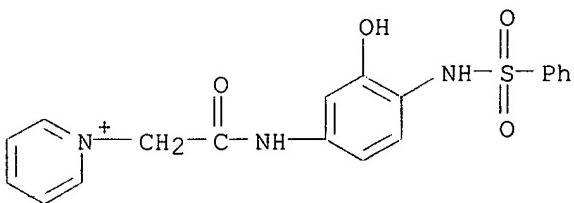
RN 285993-33-1 HCPLUS

CN Pyridinium, 1-[2-[(3-hydroxy-4-[(methylsulfonyl)amino]phenyl)amino]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

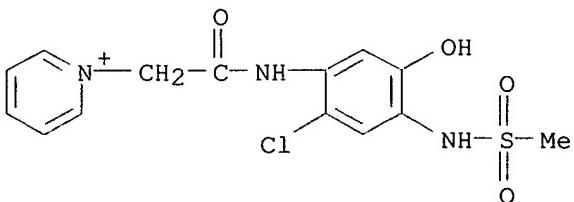
RN 285993-34-2 HCPLUS

CN Pyridinium, 1-[2-[(3-hydroxy-4-[(phenylsulfonyl)amino]phenyl)amino]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

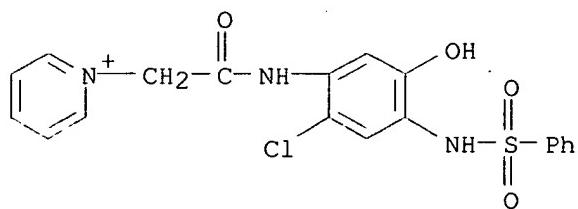
RN 285993-40-0 HCPLUS

CN Pyridinium, 1-[2-[(2-chloro-5-hydroxy-4-[(methylsulfonyl)amino]phenyl)amino]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 285993-41-1 HCPLUS

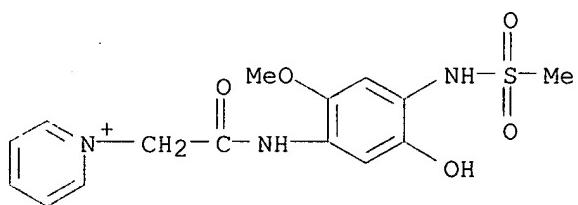
CN Pyridinium, 1-[2-[(2-chloro-5-hydroxy-4-[(phenylsulfonyl)amino]phenyl)amino]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-47-7 HCPLUS

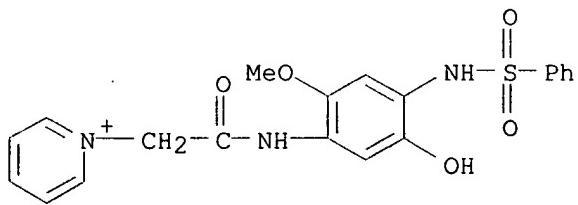
CN Pyridinium, 1-[2-[(5-hydroxy-2-methoxy-4-[(methylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-48-8 HCPLUS

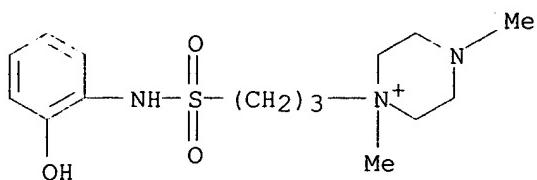
CN Pyridinium, 1-[2-[(5-hydroxy-2-methoxy-4-[(phenylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-58-0 HCPLUS

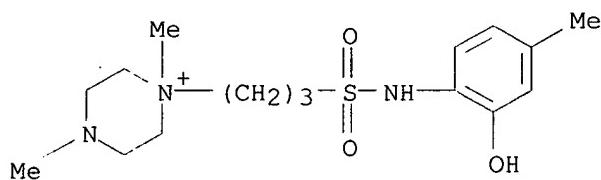
CN Piperazinium, 1-[3-[(2-hydroxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-59-1 HCPLUS

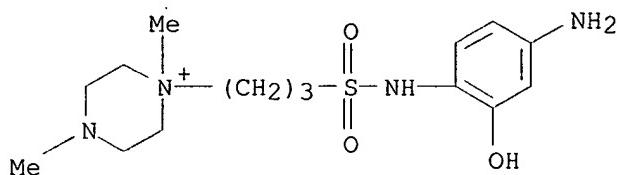
CN Piperazinium, 1-[3-[(2-hydroxy-4-methylphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-60-4 HCPLUS

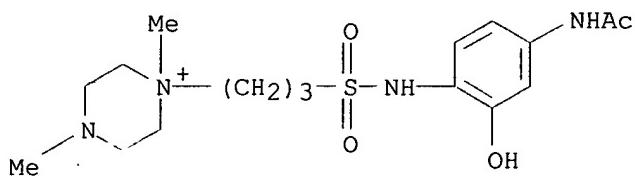
CN Piperazinium, 1-[3-[(4-amino-2-hydroxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

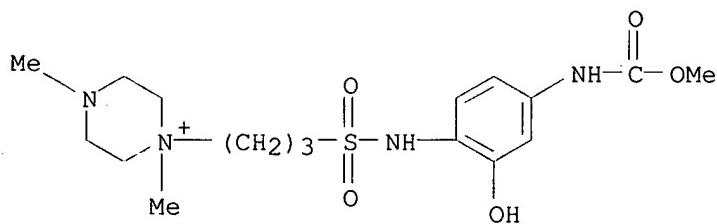
RN 285993-61-5 HCPLUS

CN Piperazinium, 1-[3-[(4-(acetylamino)-2-hydroxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

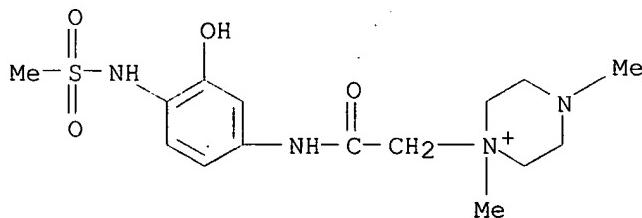
RN 285993-62-6 HCAPLUS

CN Piperazinium, 1-[3-[[2-hydroxy-4-[(methoxycarbonyl)amino]phenyl]amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

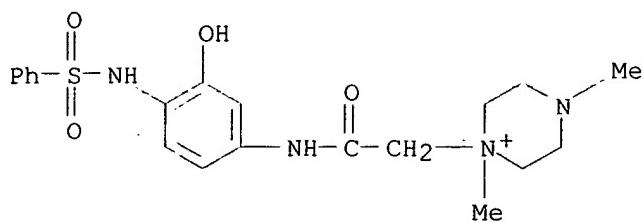
RN 285993-63-7 HCAPLUS

CN Piperazinium, 1-[2-[[3-hydroxy-4-[(methylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

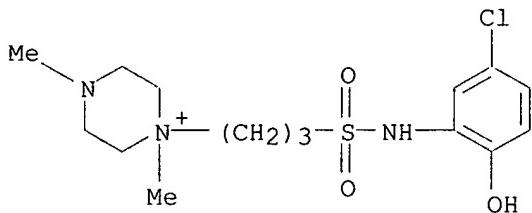
RN 285993-64-8 HCAPLUS

CN Piperazinium, 1-[2-[[3-hydroxy-4-[(phenylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

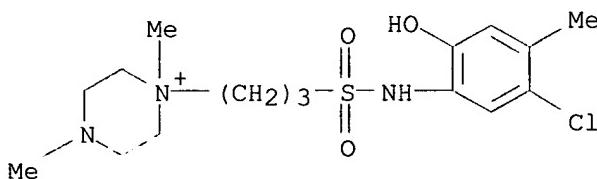
RN 285993-65-9 HCPLUS

CN Piperazinium, 1-[3-[(5-chloro-2-hydroxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

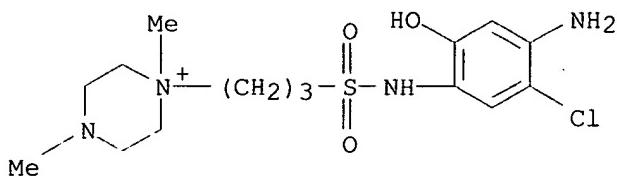
RN 285993-66-0 HCPLUS

CN Piperazinium, 1-[3-[(5-chloro-2-hydroxy-4-methylphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 285993-67-1 HCPLUS

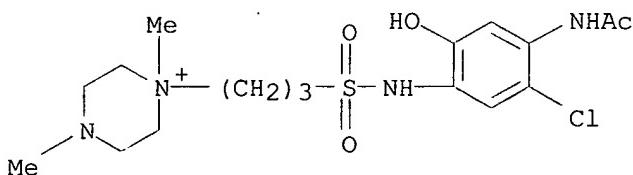
CN Piperazinium, 1-[3-[(4-amino-5-chloro-2-hydroxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-68-2 HCPLUS

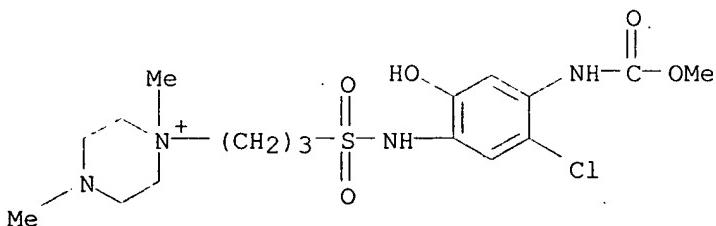
CN Piperazinium, 1-[3-[[[4-(acetylamino)-5-chloro-2-hydroxyphenyl]amino]sulfonyl]propyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-69-3 HCPLUS

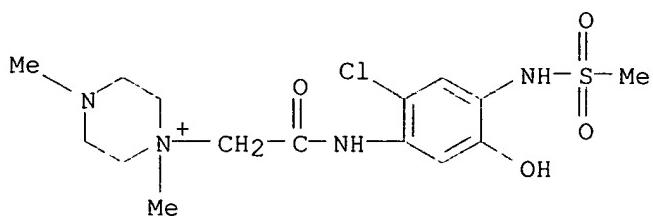
CN Piperazinium, 1-[3-[[[5-chloro-2-hydroxy-4-[(methoxycarbonyl)amino]phenyl]amino]sulfonyl]propyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

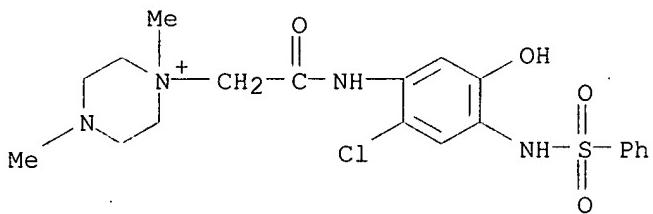
RN 285993-70-6 HCPLUS

CN Piperazinium, 1-[2-[[2-chloro-5-hydroxy-4-[(methylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

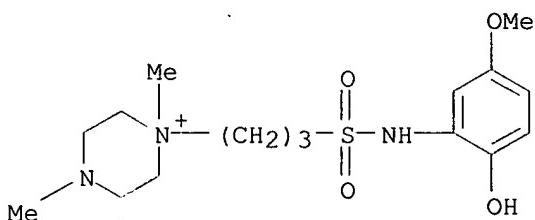
RN 285993-71-7 HCAPLUS

CN Piperazinium, 1-[2-[(2-chloro-5-hydroxy-4-[(phenylsulfonyl)amino]phenyl)amino]-2-oxoethyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

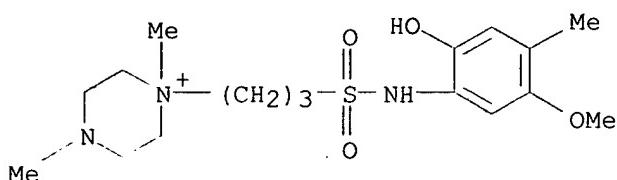
RN 285993-72-8 HCAPLUS

CN Piperazinium, 1-[3-[(2-hydroxy-5-methoxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

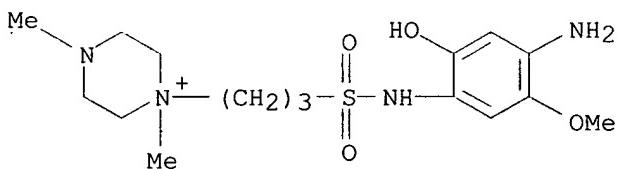
RN 285993-73-9 HCAPLUS

CN Piperazinium, 1-[3-[(2-hydroxy-5-methoxy-4-methylphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

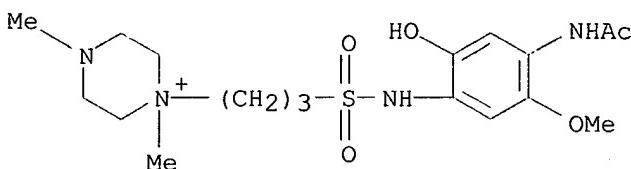
RN 285993-74-0 HCAPLUS

CN Piperazinium, 1-[3-[(4-amino-2-hydroxy-5-methoxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

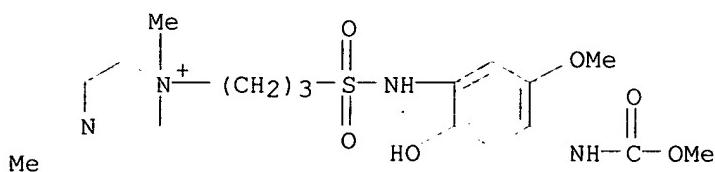
RN 285993-75-1 HCAPLUS

CN Piperazinium, 1-[3-[(4-(acetylamino)-2-hydroxy-5-methoxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

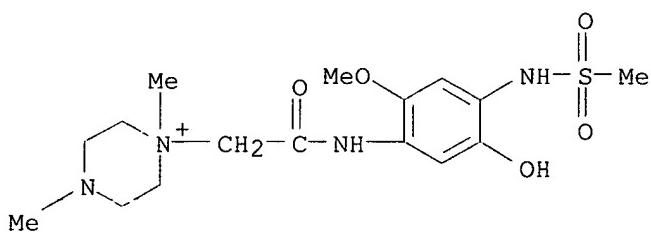
RN 285993-76-2 HCAPLUS

CN Piperazinium, 1-[3-[(2-hydroxy-5-methoxy-4-[(methoxycarbonyl)amino]phenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

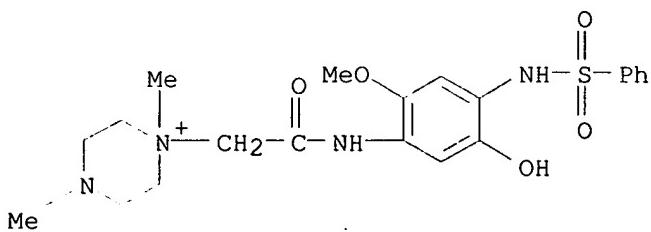
RN 285993-77-3 HCAPLUS

CN Piperazinium, 1-[2-[[5-hydroxy-2-methoxy-4-[(methylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

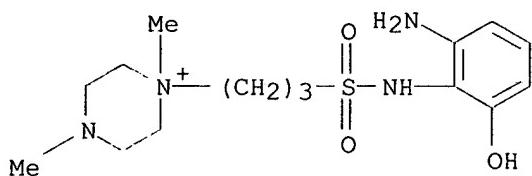
RN 285993-78-4 HCAPLUS

CN Piperazinium, 1-[2-[[5-hydroxy-2-methoxy-4-[(phenylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

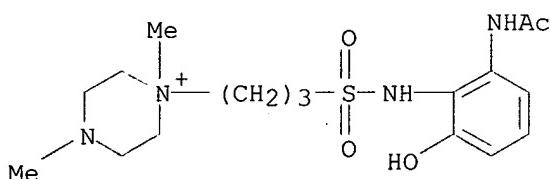
RN 285993-79-5 HCAPLUS

CN Piperazinium, 1-[3-[[2-amino-6-hydroxyphenyl]amino]sulfonyl]propyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

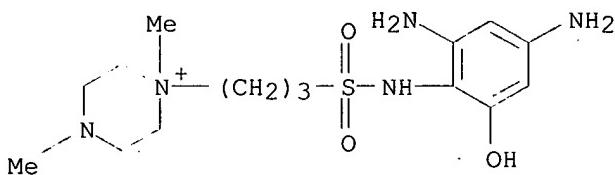
RN 285993-80-8 HCAPLUS

CN Piperazinium, 1-[3-[[2-(acetylamino)-6-hydroxyphenyl]amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

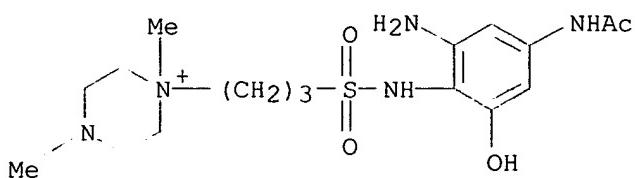
RN 285993-81-9 HCAPLUS

CN Piperazinium, 1-[3-[[2,4-diamino-6-hydroxyphenyl]amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 285993-82-0 HCAPLUS

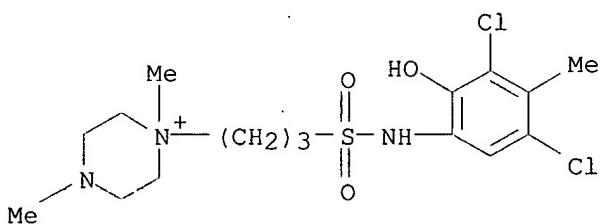
CN Piperazinium, 1-[3-[[4-(acetylamino)-2-amino-6-hydroxyphenyl]amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-83-1 HCAPLUS

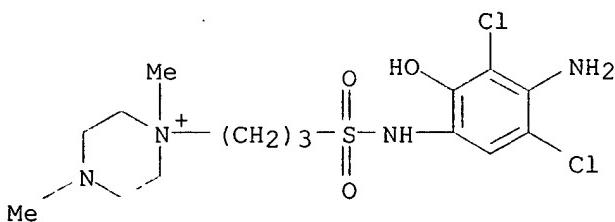
CN Piperazinium, 1-[3-[(3,5-dichloro-2-hydroxy-4-methylphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 285993-84-2 HCAPLUS

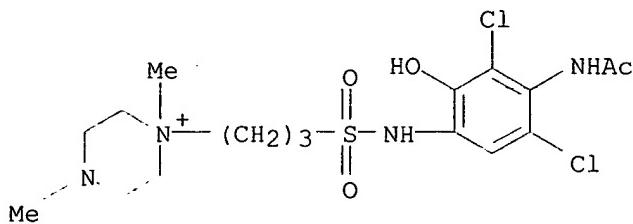
CN Piperazinium, 1-[3-[(4-amino-3,5-dichloro-2-hydroxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

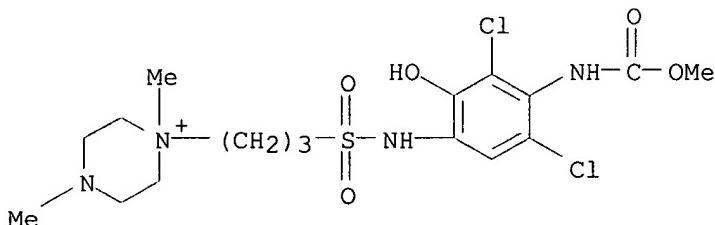
RN 285993-85-3 HCAPLUS

CN Piperazinium, 1-[3-[(4-(acetylamino)-3,5-dichloro-2-hydroxyphenyl)amino]sulfonyl]propyl-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

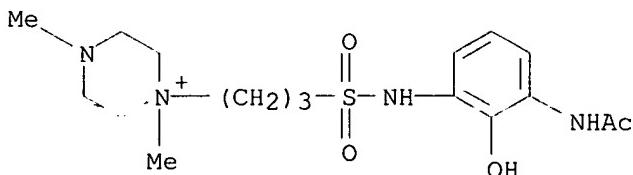
RN 285993-86-4 HCPLUS

CN Piperazinium, 1-[3-[[[3,5-dichloro-2-hydroxy-4-(methoxycarbonyl)amino]phenyl]amino]sulfonyl]propyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 285993-87-5 HCPLUS

CN Piperazinium, 1-[3-[[[3-(acetylamino)-2-hydroxyphenyl]amino]sulfonyl]propyl]-1,4-dimethyl-, chloride (9CI) (CA INDEX NAME)

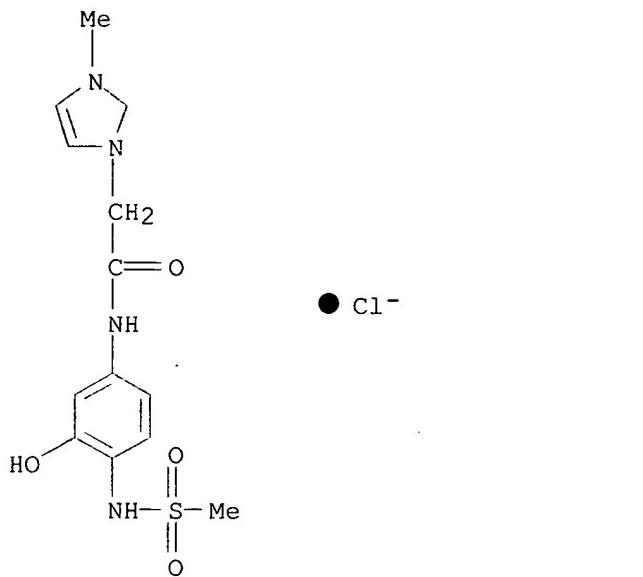
● Cl<sup>-</sup>

IT 285992-98-5P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (novel cationic 2-sulfonylaminophenols, their use as couplers for  
 oxidn. dyeing)

RN 285992-98-5 HCPLUS

CN 1H-Imidazolium, 1-[2-[[3-hydroxy-4-[(methylsulfonyl)amino]phenyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



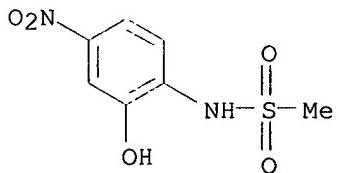
\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

IT 38880-53-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(novel cationic 2-sulfonylaminophenols, their use as couplers for  
oxidn. dyeing)

RN 38880-53-4 HCAPLUS

CN Methanesulfonamide, N-(2-hydroxy-4-nitrophenyl)- (9CI) (CA INDEX NAME)

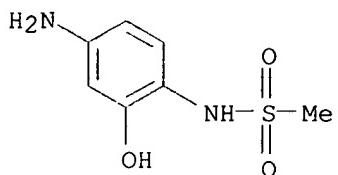


IT 57005-06-8P 285992-99-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(novel cationic 2-sulfonylaminophenols, their use as couplers for  
oxidn. dyeing)

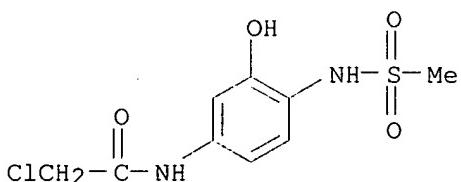
RN 57005-06-8 HCAPLUS

CN Methanesulfonamide, N-(4-amino-2-hydroxyphenyl)-, monohydrochloride (9CI)  
(CA INDEX NAME)



● HCl

RN 285992-99-6 HCPLUS  
 CN Acetamide, 2-chloro-N-[3-hydroxy-4-[(methylsulfonyl)amino]phenyl]- (9CI)  
 (CA INDEX NAME)



L9 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2002 ACS  
 AN 1974:438954 HCPLUS  
 DN 81:38954  
 TI [(Cyanomethyl)sulfonyl]amino]nitrobenzene dyes for hair  
 IN Saygin, Ferdi  
 PA Henkel und Cie. G.m.b.H.  
 SO Ger. Offen., 18 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC C07C; A61K  
 CC 40-9 (Dyes, Fluorescent Whitenning Agents, and Photosensitizers)  
 Section cross-reference(s): 62

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2241015	A1	19740228	DE 1972-2241015	19720821
	NL 7310581	A	19740225	NL 1973-10581	19730731
	US 3909190	A	19750930	US 1973-388728	19730816
	BE 803712	A1	19740218	BE 1973-134669	19730817
	GB 1394146	A	19750514	GB 1973-38923	19730817
	FR 2196997	A1	19740322	FR 1973-30169	19730820
	AU 7359393	A1	19750220	AU 1973-59393	19730820
	AT 323330	B	19750710	AT 1973-7236	19730820
	ZA 7305717	A	19740424	ZA 1973-5717	19730821
PRAI	DE 1972-2241015		19720821		
AB	The nitrobenzene dyes I (R = NH <sub>2</sub> or OH, R <sub>1</sub> = H or Cl) were prep'd. and used for oxidative dyeing of hair to give light-, wash-, and abrasionfast yellow to brown shades. Thus, reaction of 3,4-(H <sub>2</sub> N) <sub>2</sub> C <sub>6</sub> H <sub>3</sub> NO <sub>2</sub> with ClSO <sub>2</sub> CH <sub>2</sub> CN gave 1-amino-2-[(cyanomethyl)sulfonyl]amino]-4-nitrobenzene [51818-01-0], brilliant yellow on gray hair.				

Similarly prep'd. were 6 other I.

ST cyanomethylsulfonylaminobenzene dye hair; nitrobenzene dye hair; sulfonylaminobenzene dye hair; phenylenediamine hair dye; aminophenol hair dye

IT Dyes  
 (((cyanomethyl)sulfonyl)amino]nitrobenzene derivs., for hair  
 )

IT Hair  
 (dyes for, (((cyanomethyl)sulfonyl)amino]nitrobenzene derivs. as)

IT 51818-01-0P 51818-02-1P 51818-03-2P 51818-04-3P  
 51818-05-4P 51818-06-5P 51818-07-6P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (prepn. of)

IT 99-56-9 99-57-0 119-34-6 5131-58-8 5307-14-2 6358-08-3  
 6358-09-4  
 RL: RCT (Reactant)  
 (reaction of, with (chlorosulfonyl)acetonitrile)

IT 27869-04-1  
 RL: RCT (Reactant)  
 (reaction of, with nitroaniline derivs.)

IT 51818-04-3P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (prepn. of)

RN 51818-04-3 HCPLUS

CN Methanesulfonamide, N-(5-chloro-2-hydroxy-3-nitrophenyl)-1-cyano- (9CI)  
 (CA INDEX NAME)

